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| | | l | ОТН | ER DOCU | MENTS (Includ | ding Author, Ti | tle, Date, Place of Publ | ication) | 1 | | | | | |
| | | _ | Button et | al., " | Aequor in-expr | essing Mammali | an Cell Lines Used to Re | port Ca ²⁺ Mobi | lization", | Cell | | | | |
| α | AC | | Calcium 14 | 4:663-6 | 71, 1993. | | | | | | | | | |
| _ | | | | | | Protein", Photo | chemistry and Photobiolo | gy 62:651-656 | , 1995. | | | | | |
| | AD | | <u>'</u> | - | | | | • | | | | | | |
| | AE | | Mosier, " | Primary | ary In Vitro Antibody Responses by Purified Murine B Lymphocytes in Serum-Free Defined | | | | | | | | | |
| | | | Medium", 1 | The Jou | rnal of Immur | nology 127:1490 | -1493, 1981. | | | | | | | |
| | | | Paddle, "E | 3iosens | ors for Chemi | ical and Biolog | ical Agents of Defence I | nterest", Bio | sensors & B | ioelectro | nics | | | |
| | AF | 11:1079-1113, 1996. | | | | | | | | | | | | |
| | 40 | | Page et al., "A Cell-based Immunobiosensor with Engineered Molecular Recognition - Part II: Enz | | | | | | | | | | | |
| | AG | | Amplificat | tion Sy | stems", Biose | ensors & Bioele | ctronics 12:457-466, 199 | 7. | | | • | | | |
| | AU | | Pizziconi | et al. | , "A Cell-bas | sed Immunobiose | nsor with Engineered Mol | ecular Recogn | ition - Par | : I: Desi | gn | | | |
| | AH Feasibility", Biosensors & Bioelectronics 12:287-299, 1997. | | | | | | | | | | | | | |
| | | | Shimomura | et al. | , "Calcium Bi | inding, Quantum | Yield, and Emitting Mol | ecule in Aequ | orin Biolum | i nescence | n, | | | |
| | AI | | Nature 22 | 7:1356- | 1357, 1970. | | | | | | | | | |
| | | | Shimomura | et al. | , "Light-emit | ting Propertie | s of Recombinant Semi-Sy | of Recombinant Semi-Synthetic Aequorins and Recombinant | | | | | | |
| | AJ | Fluorescein-conjugated Aequorin for Measuring Cellular Calcium", Cell Calcium 14:373-378, 1993. | | | | | | | | | | | | |
| | AK | | Wilson et | et al., "Crosslinkage of B Lymphocyte Surface Immunoglobulin by Anti Ig or Antigen Induces Prolonged | | | | | | | | | | |
| | AK | | Oscillatio | on of I | ntracellular | Ionized Calciu | n", Journal of Experimen | tal Medicine | 166:601-606 | , 1987. | | | | |
| | A1 | | Wilson et | al., " | The B Lymphod | yte Calcium Re | sponse to Anti-Ig Is Dim | inished by Me | mbrane Immur | noglobuli | n | | | |
| <i>u</i> | AL | | Cross-Lin | cage | ", The Jou | ırnal of Immuno | logy 138:1712-1718, 1987 | • | | | | | | |
| | AM | | | | | | | | | | | | | |
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